

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/002071

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ G01L1/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ G01L1/22, F16B43/00Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2003-83707 A (Matsushita Electric Industrial Co., Ltd.),	1, 3-5, 7-10
Y	19 March, 2003 (19.03.03), Full text; all drawings & WO 03/025531 A1	2, 6
Y	JP 55-115616 A (Mitsubishi Electric Corp.), 05 September, 1980 (05.09.80), Full text; all drawings (Family: none)	2, 6
X	JP 2002-90232 A (Alps Electric Co., Ltd.), 27 March, 2002 (27.03.02), Full text; all drawings & EP 1189045 A2 Full text; all drawings & US 2002-0033283 A1	1, 3, 5, 7, 9-10

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

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"&" document member of the same patent family

Date of the actual completion of the international search
24 May, 2004 (24.05.04)Date of mailing of the international search report
08 June, 2004 (08.06.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E, X	JP 2004-69535 A (Matsushita Electric Industrial Co., Ltd.), 04 March, 2004 (04.03.04), Full text; all drawings (Family: none)	1-10